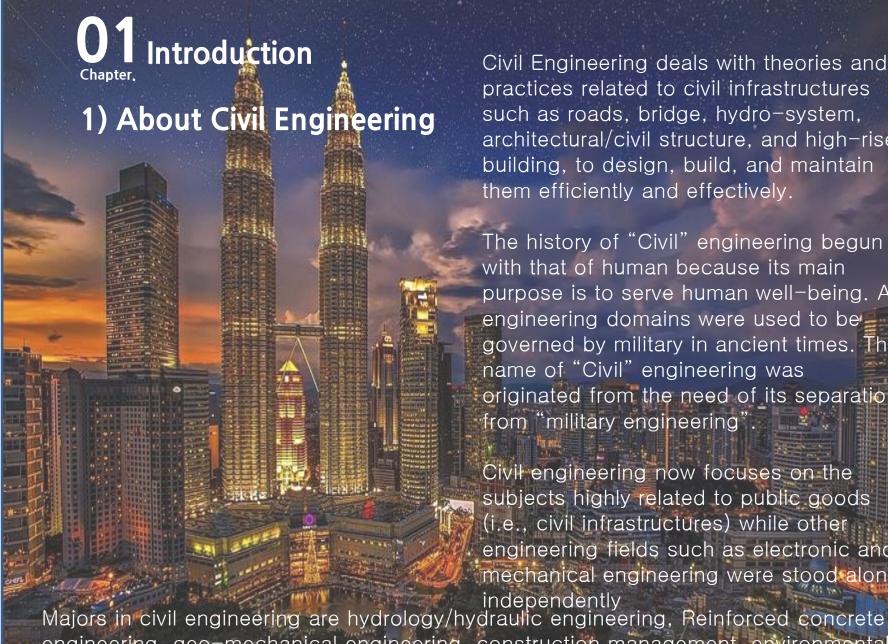


Contents

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- Chapter 02. Professors
- Chapter 03. Curriculum
- Chapter 04. Contacts



Civil Engineering deals with theories and practices related to civil infrastructures such as roads, bridge, hydro-system, architectural/civil structure, and high-rise building, to design, build, and maintain them efficiently and effectively.

The history of "Civil" engineering begun with that of human because its main purpose is to serve human well-being. All engineering domains were used to be governed by military in ancient times. The name of "Civil" engineering was originated from the need of its separation from "military engineering".

Civil engineering now focuses on the subjects highly related to public goods (i.e., civil infrastructures) while other engineering fields such as electronic and mechanical engineering were stood alone

engineering, geo-mechanical engineering, construction management, environmental engineering, and structural engineering,

2) Educational Goals



3) After Graduation



Fostering civil engineer with expertise and practical abilities in all fields of civil engineering through systematic and professional educational program

- 1 Systematization of fundamental theories and practices
- 2 Strengthening professional and humanistic education
- ③ Fostering engineering expert who can resolve issues in our society and public policy
- Governmental organizations
- Research institutes
- National enterprises
- Domestic and international construction companies
- Consulting companies

4) History



1985	Our department was established	2004	Attracted about 10 Million USD from
1993	Graduate-master program opened	2009	MCT for COMTEC Construction of Advanced
1996	Graduate-Ph.D. program opened		Construction Materials Testing Center (COMTEC) was completed
2001	Renamed to Dept. of Civil Engineering	2010	Civil Eng. Intensive program was certified
2002	Ranked 10 out of 77 civil departments all over the nation	2015	Renamed to Civil Eng. Major in School of Architectural and Civil Eng.



Our department is now running the Accreditation Board for Engineering Education of Korea (ABEEK) program.

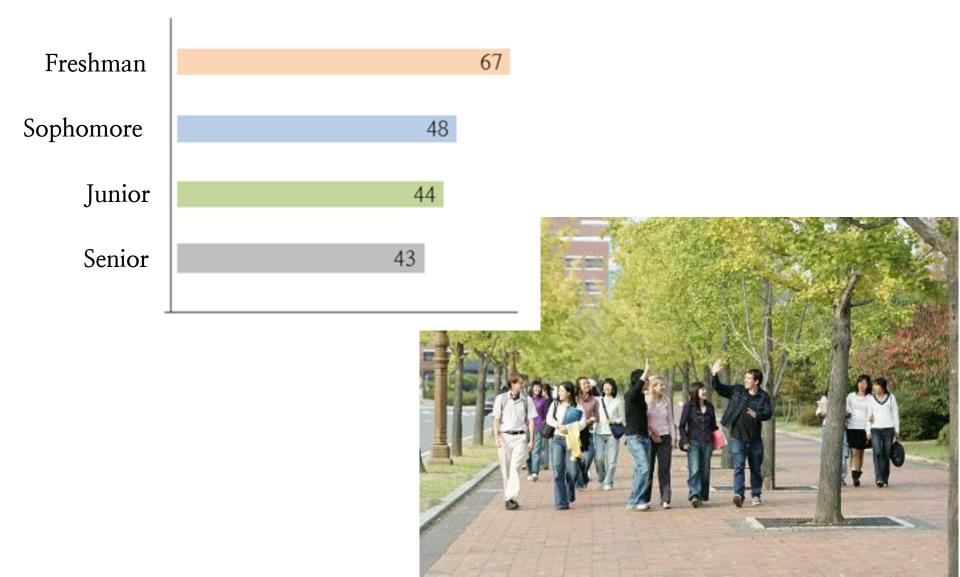
ABEEK Vision

ABEEK, by promoting innovation and quality assurance of education in engineering, computing and engineering technology, will enhance the professional competencies of respective engineering professionals.

Mission for achieving ABEEK Vision

- Mission 1: Develop accreditation criteria to meet evolving needs of engineering profession
- Mission 2: Provide effective and timely accreditation services
- Mission 3: Foster innovation and enhance quality of engineering education
- Mission 4: Promote public awareness of the benefits of accreditation
- Mission 5: Establish and maintain independence and consistency of accreditation
- Mission 6: Contribute to advancement of global engineering education

6) Number of Students



Descriptions on Each Major

- Water Resources Eng. involves protecting and managing water resources in a sustainable and environmentally appropriate manner for the good of society
- Structural Eng. includes the design and optimization of the built environment be it bridges, buildings, transportation facilities or habitats
- Geotechnical Eng. involves working with and understanding the engineering properties of soil, rock, and groundwater
- Civil Construction Management involves the application of construction methods and knowledge of construction equipment, as well as the implementation of the principles of management, scheduling and planning
- Water Treatment Eng. involves designing systems and solving pressing global problems in all areas related to the environment and public health





Prof. Bae, Sang Keun

Lab: Hydrology and Hydraulics Lab.

Research and Publication Info.:

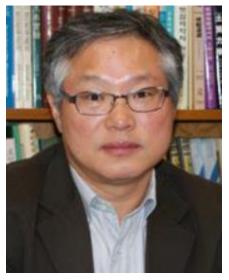
- 1. Investigating water supply methods for island area
- 2. Studying the impact of afforestation on rainfall-runoff in condominium complex
- 3. Investigating the impact of reservoir water level on groundwater level in vicinity



Prof. Lee, Seung Han

Lab: Reinforced Concrete Engineering Lab. Research and Publication Info.:

- 1. Efflorescence characteristics of concrete sidewalk block by environmental conditions
- 2. Experimental study for identifying the reasons of Shale aggregate weathering in Daegu-Kyeongbuk Region
- 3. Characteristics of concrete sidewalk block manufactured using stone powder sludge and photocatalytic agent

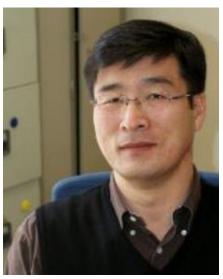


Prof. Kwon, Oh Kyun

Lab: Geotechnical Engineering Lab.

Research and Publication Info.:

- 1. Displacement characteristics of battered pile under horizontal loads
- 2. Bearing behavior characteristics of pressure penetrating steel pipe pile under compression load
- 3. Case study on slope failure with carbonaceous peculiar soil
- 4. Uplift capacity of suction pile by an experiment



Prof. Chung, Youn In

Lab: Civil Construction Management Lab.

Research and Publication Info.:

- 1. Study on excavation reinforcing techniques for large cross sectional tunnel and
- 2. Study on effective consolidation design in soft soils
- 3. Physical and consolidation characteristics of soft clay in Nakdong River Lower Basin



Prof. Chung, Ho Jin

Lab: Environmental Sanitation Lab.

Research and Publication Info.:

- 1. Investing the impact of slow mixing on flocculation
- 2. Effective operation and diagnosis of water treatment facility
- 3. Study on floc characteristics of different solutions
- 4. Study on the development of electro coagulation oxidation system

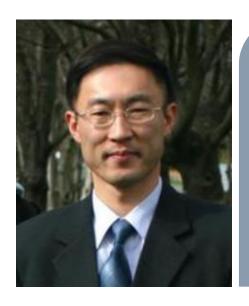


Prof. Chang, Chunho

Lab: Composite Structure System Lab.

Research and Publication Info.:

- 1. Seismic performance evaluation of RC column using TRC
- 2. Seismic performance evaluation of steel frame structures with base isolation
- 3. Seismic repair and strengthening using Hybrid FRP



Prof. Chey, Min Ho

Lab: Smart Structure Lab.

Research and Publication Info.:

- 1. Response spectrum analysis for TMD type story isolation system design
- 2. Urban structures with various horizontal irregularities using equivalent static analysis
- 3. Passive and semi-active mid-story isolation system



Prof. Yang, Jun-Mo

Lab: Reinforced Concrete Engineering Lab Research and Publication Info.:

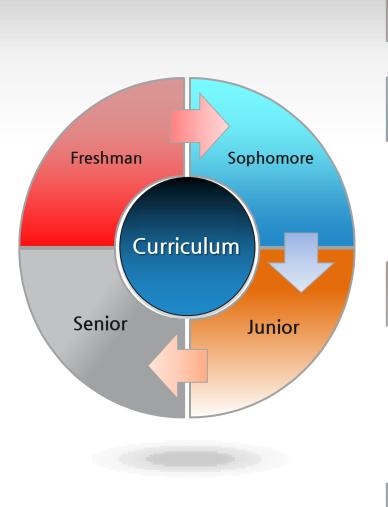
- 1. Development of concrete products utilizing low carbon materials
- 2. Development of fiber-reinforced cementitious concrete technologies
- 3. Development of prestressed concrete structure with super high strength PC-strand applied



Prof. Jung, Donghwi Lab: Hydrosystem Lab. Research and Publication Info.:

- 1. Resilience-based water distribution system (WDS) design, operation and management
- 2. WDS failure event detection and pinpointing
- 3. Metaheuristic optimization algorithm and its application to water resources engineering

Curriculum



2nd Semester - Basic Design

1st Semester 2

Surveying & Practices

Civil Statics

2nd Semester

Civil Fluid Mechanics - Open Channel Flow &

Practices

Applied Mechanics &

Practices

Construction Materials &

Practices

1st Semester

3

4

Structural Analysis

- Soil Mechanics & Lab.

Reinforced Concrete - ISP **Mechanics**

2nd Semester

Hydrology 2

Hydrology 1 - Construction Managemen

Water and Wastewater - Wastewater Eng. & Lab.

Eng. & Lab. - Reinforced Concrete

Structure & Design

Capstone Design and Others http://tomok2.dsso.kr/sub3_3.php

04 Contacts

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 - Cell 010-3174-5231
 - pizza1593@naver.com
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 - Prof. Lee, Seung Han, **Room 2107, Eng. Bldg #2,** 82–53–580–5296, lsh@kmu.ac.kr
 - Prof. Kwon, Oh Kyun, **Room 2101, Eng. Bldg #2,** 82–53–580–5280, ohkwon@kmu.ac.kr
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 - Prof. Chung, Ho Jin, **Room 2103, Eng. Bldg #2,** 82–53–580–5355, hjc@kmu.ac.kr
 - Prof. Chang, Chunho, **Room 2111, Eng. Bldg #2,** 82–53–580–5299, chunho@kmu.ac.kr
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 - Prof. Jung, Donghwi, donghwiku@gmail.com